Colbert 8.2

ABC LABORATORIES, INC.
EAST 4922 UNION AVENUE
SPOKANE, WA 99219
509-534-0161

REPORT TO: Spokane County Dept. of Utilities
N. 811 Jefferson
Spokane, WA 99210

LAB NO: 33033-89
DATE: 11-16-89
SAMPLE DATE: 10-27-89

ATTN: Bruce Austin

P.O.#:

DESCRIPTION: Perform Volatile Organic Scan on submitted samples from the wells in the Colbert Landfill area. Analyses performed by methods outlined in proposal of December 8th, 1988.

DETECTION LIMITS: 1 part per billion

ND: Not Detected

This document contains six pages.

Respectfully Submitted,
ABC LABORATORIES, INC.

W.E. Burkhardt
Manager

ABC LABORATORIES, INC.

Spokane County Dept. of Utilities
Lab NO. 33033-89

NAME WELL NO.	Travel Blank 0273D-5 10-27-89	Travel Blank 1173D-1 10-27-89	Travel Blank 1473C-2 10-27-89	Travel Blank 11-7-89	Travel Blank 11-8-89	Laboratory Blank 11-9-89
Chloroform	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND
1,1-Dichloroethylene	ND	ND	ND	ND	ND	ND
Trichloroethylene	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND
Tetrachloroethylene	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	ND	ND
1-Pentene	ND	ND	ND	ND	ND	ND
Cyclopentane	ND	ND	ND	ND	ND	ND
Trans 2-Hexene	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND
Ethylene DiBromide	ND	ND	ND	ND	ND	ND
Ethyl Benzene	ND	ND	ND	ND	ND	ND
M-xylene	ND	ND	ND	ND	ND	ND
O-xylene	ND	ND	ND	ND	ND	ND
P-xylene	ND	ND	ND	ND	ND	ND
Cumene	ND	ND	ND	ND	ND	ND
1,2,4-Trimethyl Benzene	ND	ND	ND	ND	ND	ND
P-cymene	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND
M-dichlorobenzene	ND	ND	ND	ND	ND	ND
O-dichlorobenzene	ND	ND	ND	ND	ND	ND
P-dichlorobenzene	ND	ND	ND	ND	ND	ND
Methyl Ethyl Ketone	ND	ND	ND	ND	ND	ND
Acetone	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND
Trans 1,2-Dichloroethane	ND	ND	ND	ND	ND	ND
Trans 1,2-Dichloroethylene	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND
Cis 1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND
Trans 1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND
1,1,2,-richloroethane	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	ND	ND	ND	ND	ND	ND

ABC LABORATORIES, INC.

Spokane County Dept. of Utilities
Lab NO. 33033-89

NAME	Laboratory Blank	(b) (6)				
WELL NO.		1173D-1	1173D-1 Confirming	1573R-1	1473M-1	1473M-1 Confirming
Chloroform	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	23	21	ND	ND	ND
1,1-Dichloroethylene	ND	7	10	ND	ND	ND
Trichloroethylene	ND	4	7	ND	ND	ND
1,1,1-Trichloroethane	ND	37	45	ND	22	26
Tetrachloroethylene	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	ND	ND
1-Pentene	ND	ND	ND	ND	ND	ND
Cyclopentane	ND	ND	ND	ND	ND	ND
Trans 2-Hexene	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND
Ethylene DIBromide	ND	ND	ND	ND	ND	ND
Ethyl Benzene	ND	ND	ND	ND	ND	ND
M-xylene	ND	ND	ND	ND	ND	ND
O-xylene	ND	ND	ND	ND	ND	ND
P-xylene	ND	ND	ND	ND	ND	ND
Cumene	ND	ND	ND	ND	ND	ND
1,2,4-Trimethyl Benzene	ND	ND	ND	ND	ND	ND
P-cymene	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND
M-dichlorobenzene	ND	ND	ND	ND	ND	ND
O-dichlorobenzene	ND	ND	ND	ND	ND	ND
P-dichlorobenzene	ND	ND	ND	ND	ND	ND
Methyl Ethyl Ketone	ND	ND	ND	ND	ND	ND
Acetone	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND
Trans 1,2-Dichloroethane	ND	ND	ND	ND	ND	ND
Trans 1,2-Dichloroethylene	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND
Cis 1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND
Trans 1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND
1,1,2,-richloroethane	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	ND	ND	ND	ND	ND	ND

ABC LABORATORIES, INC.

Spokane County Dept. of Utilities
Lab NO. 33033-89
NAME (b) (6)

WELL NO.	1573K-2	0273E-1	0273E-1 Confirming	1073L-1	1573H-3	1573C-13
Chloroform	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND
1,1-Dichloroethylene	ND	ND	ND	ND	ND	ND
Trichloroethylene	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	59	73	ND	ND	ND
Tetrachloroethylene	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	ND	ND
1-Pentene	ND	ND	ND	ND	ND	ND
Cyclopentane	ND	ND	ND	ND	ND	ND
Trans 2-Hexene	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND
Ethylene DiBromide	ND	ND	ND	ND	ND	ND
Ethyl Benzene	ND	ND	ND	ND	ND	ND
M-xylene	ND	ND	ND	ND	ND	ND
O-xylene	ND	ND	ND	ND	ND	ND
P-xylene	ND	ND	ND	ND	ND	ND
Cumene	ND	ND	ND	ND	ND	ND
1,2,4-Trimethyl Benzene	ND	ND	ND	ND	ND	ND
P-cymene	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND
M-dichlorobenzene	ND	ND	ND	ND	ND	ND
O-dichlorobenzene	ND	ND	ND	ND	ND	ND
P-dichlorobenzene	ND	ND	ND	ND	ND	ND
Methyl Ethyl Ketone	ND	ND	ND	ND	ND	ND
Acetone	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND
Trans 1,2-Dichloroethane	ND	ND	ND	ND	ND	ND
Trans 1,2-Dichloroethylene	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND
Cis 1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND
Trans 1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND
1,1,2,-richloroethane	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	ND	ND	ND	ND	ND	ND

ABC LABORATORIES, INC.

Spokane County Dept. of Utilities
Lab NO. 33033-89
NAME (b) (6)

WELL NO.	1473N-1	0273F-4	1573C-6	1473C-2	0273D-5	0273D-5
Chloroform	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND
1,1-Dichloroethylene	ND	ND	ND	ND	ND	ND
Trichloroethylene	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND
Tetrachloroethylene	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	138	140
1-Pentene	ND	ND	ND	ND	ND	ND
Cyclopentane	ND	ND	ND	ND	ND	ND
Trans 2-Hexene	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND
Ethylene DiBromide	ND	ND	ND	ND	ND	ND
Ethyl Benzene	ND	ND	ND	ND	ND	ND
M-xylene	ND	ND	ND	ND	ND	ND
O-xylene	ND	ND	ND	ND	ND	ND
P-xylene	ND	ND	ND	ND	ND	ND
Cumene	ND	ND	ND	ND	ND	ND
1,2,4-Trimethyl Benzene	ND	ND	ND	ND	ND	ND
P-cymene	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND
M-dichlorobenzene	ND	ND	ND	ND	ND	ND
O-dichlorobenzene	ND	ND	ND	ND	ND	ND
P-dichlorobenzene	ND	ND	ND	ND	ND	ND
Methyl Ethyl Ketone	ND	ND	ND	ND	ND	ND
Acetone	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND
Trans 1,2-Dichloroethane	ND	ND	ND	ND	ND	ND
Trans 1,2-Dichloroethylene	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND
Cis 1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND
Trans 1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND
1,1,2,-richloroethane	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	ND	ND	ND	ND	ND	ND

ABC LABORATORIES, INC.

Spokane County Dept. of Utilities
Lab NO. 33033-89
NAME (b) (6)

WELL NO.	0273C-1	1073D-1
Chloroform	ND	ND
1,1-Dichloroethane	ND	ND
1,1-Dichloroethylene	ND	ND
Trichloroethylene	ND	ND
1,1,1-Trichloroethane	ND	ND
Tetrachloroethylene	ND	ND
Methylene Chloride	ND	ND
1-Pentene	ND	ND
Cyclopentane	ND	ND
Trans 2-Hexene	ND	ND
Benzene	ND	ND
Toluene	ND	ND
Ethylene DiBromide	ND	ND
Ethyl Benzene	ND	ND
M-xylene	ND	ND
O-xylene	ND	ND
P-xylene	ND	ND
Cumene	ND	ND
1,2,4-Trimethyl Benzene	ND	ND
P-cymene	ND	ND
Chlorobenzene	ND	ND
M-dichlorobenzene	ND	ND
O-dichlorobenzene	ND	ND
P-dichlorobenzene	ND	ND
Methyl Ethyl Ketone	ND	ND
Acetone	ND	ND
Bromodichloromethane	ND	ND
Bromoform	ND	ND
Carbon Tetrachloride	ND	ND
Dibromochloromethane	ND	ND
1,2-Dichloroethane	ND	ND
Trans 1,2-Dichloroethane	ND	ND
Trans 1,2-Dichloroethylene	ND	ND
1,2-Dichloropropane	ND	ND
Cis 1,3-Dichloropropylene	ND	ND
Trans 1,3-Dichloropropylene	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND
1,1,2,-richloroethane	ND	ND
2-Chloroethylvinyl Ether	ND	ND

AREA 05-01-89

DEEP/SHALLOW
10/27/89

PERFORMANCE STANDARDS

MAXIMUM ALLOWABLE CONTAMINANT CONCENTRATIONS

Health Protection Levels*

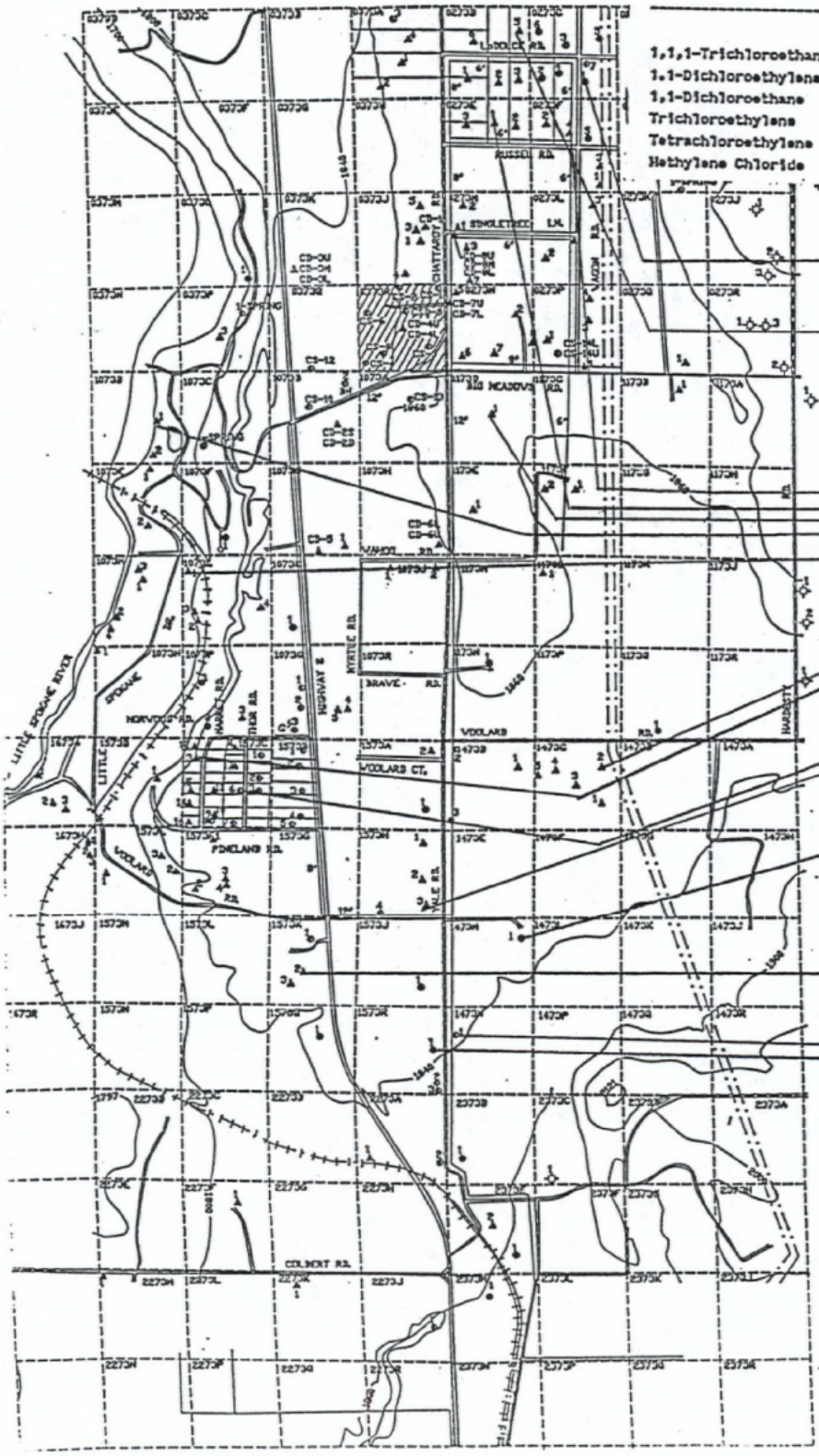
* Health Protection Levels are not to be exceeded, during operational life of remedial action in effluents from groundwater treatment systems. Permanent reduction of contaminant concentrations below these levels throughout the site will indicate completion of the remedial action.

Contaminant		Maximum Concentration parts per billion (ug/l)	Basis
1,1,1-Trichloroethane	(TCA)	200.0	MCL
1,1-Dichloroethylene	(DCE)	7.0	MCL
1,1-Dichloroethane	(DCA)	4050.0	MAC
Trichloroethylene	(TCE)	5.0	MCL
Tetrachloroethylene	(PCE or TETRA CL)	0.7	10 -6 cancer risk
Methylene Chloride	(MC)	2.5	10 -6 cancer risk

SCALE-NONE

SYMBOL	LAYER	DESCRIPTION
	BOARD	EXISTING BOARD
	PO LINE	PO CONTROL LINE
	POWER	TRANSMISSION LINE
	WATER	RIVERS & STREAMS
	GRID	T16 SECTIONS
	CITY LIMITS	SHORT PLATS
	SHALLOW	WELLS UNDER 100' DEEP
	DEEP	WELLS OVER 100' DEEP
	OTHER	WELLS OVER OTHER AQUIFER
		SEASONAL COLBERT CANYON

NOTE:
FOR IDENTIFICATION OF WELLS
SEE WELL OWNER/MANNER LEGEND



SHALLOW
OCT 27, 89 #33033-89 WELL # 111-TCA 11-DCE 11-DCA TCE TETRACL CHLOROFORM METH CHLOR
9273C-1 ND ND ND ND ND ND ND
(b)

DEEP
OCT 27, 89 #33033-89 WELL # 111-TCA 11-DCE 11-DCA TCE TETRACL CHLOROFORM METH CHLOR
9273C-5 ND ND ND ND ND ND 160
(b)

DEEP
OCT 27, 89 #33033-89 WELL # 111-TCA 11-DCE 11-DCA TCE TETRACL CHLOROFORM METH CHLOR
9273F-1 ND ND ND ND ND ND ND
9273E-1 73 ND ND ND ND ND ND
11730-1 45 10 21 7 ND ND ND
10730-1 ND ND ND ND ND ND ND
(b)
(6)
(b)

1073K-1 ND ND ND ND ND ND ND

1473C-2 ND ND ND ND ND ND ND
1573C-12 ND ND ND ND ND ND ND
(b)

SHALLOW
OCT 27, 89 #33033-89 WELL # 111-TCA 11-DCE 11-DCA TCE TETRACL CHLOROFORM METH CHLOR
1573C-5 ND ND ND ND ND ND ND
1573B-3 ND ND ND ND ND ND ND
(b) (6)

SHALLOW
OCT 27, 89 #33033-89 WELL # 111-TCA 11-DCE 11-DCA TCE TETRACL CHLOROFORM METH CHLOR
1673H-1 20 ND ND ND ND ND ND
(b)

DEEP
OCT 27, 89 #33033-89 WELL # 111-TCA 11-DCE 11-DCA TCE TETRACL CHLOROFORM METH CHLOR
1573E-2 ND ND ND ND ND ND ND
(b

SHALLOW
OCT 27, 89 #33033-89 WELL # 111-TCA 11-DCE 11-DCA TCE TETRACL CHLOROFORM METH CHLOR
1473H-1 ND ND ND ND ND ND ND
1573B-1 ND ND ND ND ND ND ND
(b)